

- [c4] An improved safety railing as in claim 1, to eliminate the welding joints between the pickets and the top and bottoms support bars in the guard railing, said guard railing being constructed of aluminum.
- [c5] An improved safety railing as in claim 1 wherein:
said safety railing being suitable for mounting on an inclined surface, said spacer plugs having end faces angled substantially equal to the inclined angle of the safety railing relative to the longitudinal axis of the safety plugs for snug engagement with each picket to separate adjacent pickets.
- [c6] A method of constructing an aluminum safety railing comprising the steps of:
forming a top bar and a bottom bar of aluminum and including a longitudinal channel disposed radially, outwardly in a predetermined direction and sized to receive the end portions of a plurality of aluminum pickets;
disposing a plurality of aluminum pickets, each having one end mounted within said top bar channel and the opposite end mounted in the bottom bar channel;
said pickets being sized to fit snugly in said top bar channel and said bottom bar channel;
disposing a plurality of spacer plugs slidably interlocked within said top bar channel and said bottom bar channel, spaced between each of said picket top portion and bottom portions and snugly engaged between adjacent pickets within said top bar channel and said bottom bar channel for rigidly holding said pickets in place without welding; and
connecting a support bar rigidly joining said top bar to said bottom bar at each end to form a guard railing; and
connecting a plurality of posts to said guard railing for anchoring into the earth.
- [c7] A method as in claim 6, including the steps of:
providing an end picket at each end of the guard railing; and
welding the end pickets, top and bottom, to said top bar and said bottom bar, rigidly locking said remaining pickets and spacer plugs in place.